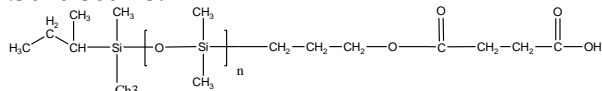


**Sample Name:**  
**Carboxy Terminated Polydimethylsiloxane**  
**(succinic anhydride linkage)**

**Sample #:** P18565-DMSCOOH

**Structure:**



**Composition:**

$M_n \times 10^3$	PDI
5.0	1.15
COOH functionality	> 50%

**Synthesis Procedure:**

Carboxy terminated polydimethylsiloxane was prepared by living anionic polymerization.

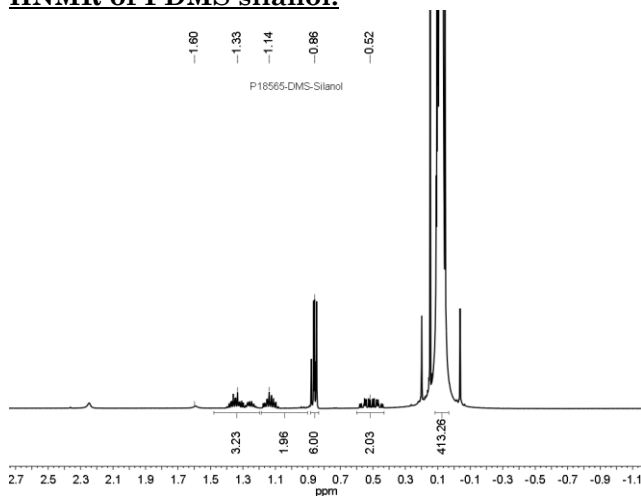
**Characterization:**

The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

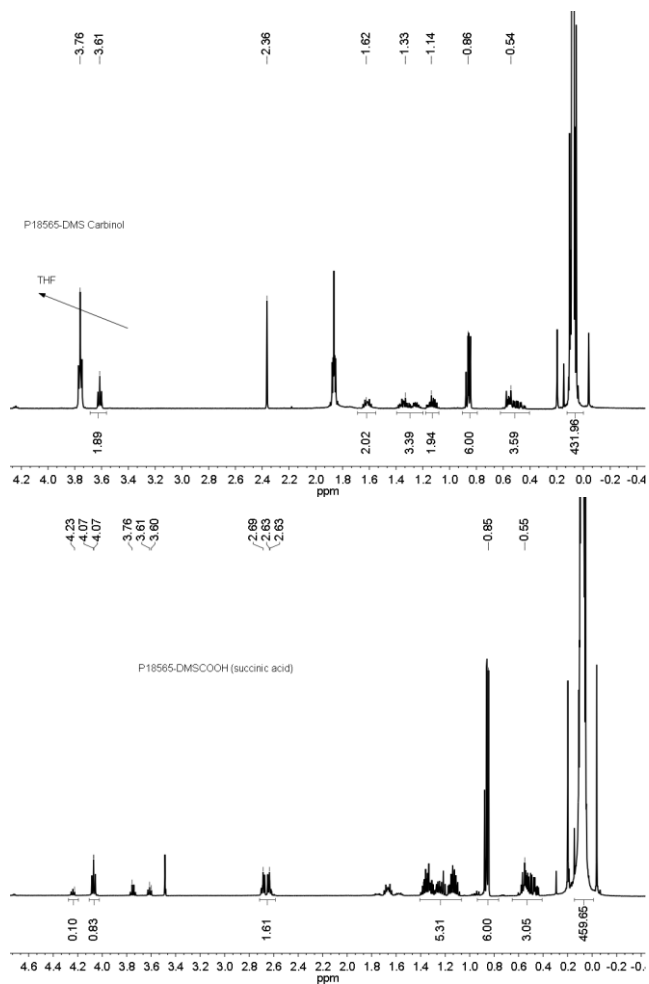
**Solubility:**

Polymer is soluble in hexane, THF and  $\text{CHCl}_3$ .

**HNMR of PDMS silanol:**

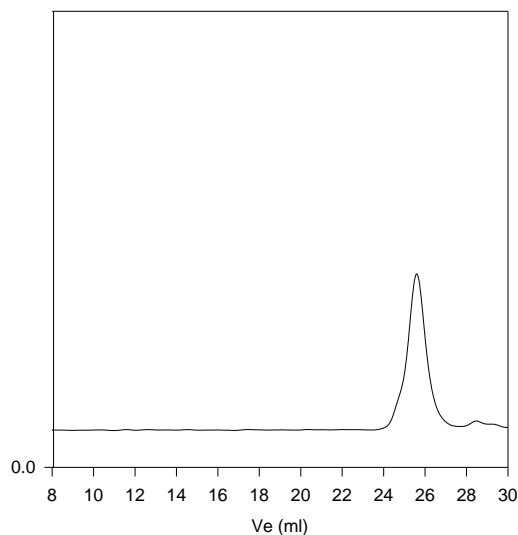


PDMS-Cabinol :Functionality about 50%



**SEC of Sample:**

**P18565-DMSCOOH Before reacting with succinic anhydride**



Size exclusion chromatography of monocarbinol terminated polydimethylsiloxane

— Before reacting with succinic anhydride  
 Polydimethylsiloxane  $M_n=5000$ ,  $M_w=5700$ ,  $PI=1.15$